

Notice of Allowability

Application No.

09/934,223

Examiner

Qi Han

Applicant(s)

WANG, YEYI

Art Unit

2654

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 09/19/2005.
2. ☒ The allowed claim(s) is/are 20-24.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 09/19/2005
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

DETAILED ACTION

- I. This communication is responsive to the applicant's amendment dated 09/19/2005 and a telephone interview on 12/13/2005 regarding examiner's amendment (see below).

Response to Amendments

The examiner withdraws the claim objection and disclosure objection, because the applicant made amendment and/or clarification.

The examiner withdraws the claim rejection under 35 USC 101, because the applicant agrees to cancel claims 1-3 (see examiner's amendment below).

The examiner withdraws the claim rejection under 35 USC 102 and 103, because the applicant agrees to cancel claims 1-19 and 25-28 (see examiner's amendment below) and applicant's arguments regarding claims 20-24 are persuasive (see amendment: page 14, paragraph 4 to page 16, paragraph 1).

Examiner's Amendment

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The authorization for this Examiner's Amendment was proved by applicant's representative, Theodore M. Magee, through a telephone interview on 12/13/05. The Examiner's Amendment is as following:

In the claim (refer to the amendment filed on 09/19/2005):

Claims 1-19 and 25-28 (see page 1-5 and 6-7) are cancelled.

Claim 20, see page 5, lines 15-16 of the claim, after "using the first token and", replace "the start position and end position" with --the starting position and ending position--.

-----end of Examiner's Amendment-----

Allowable Subject Matter

3. Claims 20-24 are allowed.

The following is an examiner's statement of reasons for allowance:

Regarding independent **claim 20**, the instant application is directed to a method of parsing text to form a text representation that has structures spanning sub-strings of words in the text. The independent claim, combining other well known features in the art, identifies the uniquely distinct features (also see Figs. 9-10) of identifying a first structure that spans a first sub-string of words in the text and has a first token as its root, the first sub-string having a starting position and an ending position; indexing the first structure by the first token and the starting position and ending position of the first sub string; identifying a second structure that spans the first sub-string of words and has the first token as its root; using the first token and the

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starting position and ending position of the first sub-string to locate the first structure; and removing one of the first structure and second structure from further consideration in the formation of the representation of the text.

The prior art of record, Call (2002/0165707), Brash (5,960,384), Kessenich et al. (6,055,538), Mayers et al. (5,532, 694) and Carrano ("data abstraction and problem solving with C++: walls and mirrors", ISBN 0-201-87402-4), provided numerous techniques and/or alternative approaches for parsing the text data, including tokenizing the text, identifying terms (tokens), pruning the parallel paths, using syntactic parse and conceptual (semantic) analysis, implementing the related algorithms and indexing methods by using various data structures including binary tree, object class, array, hash table with bucket pointers or arrays, and hash table with multiple level pointers. However, the combined features, as stated above, are not anticipated by, nor made obvious over the prior art of the record.

4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

5. Please address mail to be delivered by the United States Postal Service (USPS) as follows:

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Effective January 14, 2005, except correspondence for Maintenance Fee payments, Deposit Account Replenishments (see 1.25(c)(4)), and Licensing and Review (see 37 CFR 5.1(c) and 5.2(c)), please address correspondence to be delivered by other delivery services (Federal Express (Fed Ex), UPS, DHL, Laser, Action, Purolater, etc.) as follows:

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Qi Han whose telephone numbers is (571) 272-7604. The examiner can normally be reached on Monday through Thursday from 9:00 a.m. to 7:00 p.m. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richmond Dorvil, can be reached on (571) 272-7602.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Inquiries regarding the status of submissions relating to an application or questions on the Private PAIR system should be directed to the Electronic Business Center (EBC) at 866-217-9197 (toll-free) or 703-305-3028 between the hours of 6 a.m. and midnight Monday through Friday EST, or by e-mail at: ebc@uspto.gov. For general information about the PAIR system, see <http://pair-direct.uspto.gov>.

QH/qh

December 13, 2005



DAVID D. KNEPPER
PRIMARY EXAMINER